

SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.

BANDMAN, Olga

LAL, Preeti

TANG, Y. Tom

CORLEY, Neil C.

GUEGLER, Karl J.

BAUGHN, Mariah R.

PATTERSON, Chandra

<120> CELL CYCLE REGULATION PROTEINS

<130> PF-0531 PCT

<140> To Be Assigned

<141> Herewith

<150> 60/088,695

<151> 1998-06-08

<160> 35

<170> PERL Program

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<211> 197

<212> PRT

<213> Homo sapiens

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<221> misc_feature

<223> Incyte clone 037377

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				20					25					30
Pro	Glu	Pro	Gly	Pro	Ser	Ser	Ser	Ile	Gly	Ser	Pro	Gln	Ala	Ser
				35					40					45
Ser	Pro	Pro	Arg	Pro	Asn	His	Tyr	Leu	Leu	Ile	Asp	Thr	Gln	Gly
				50					55					60
Val	Pro	Tyr	Thr	Val	Leu	Val	Asp	Glu	Glu	Ser	Gln	Arg	Glu	Pro
				65					70					75
Gly	Ala	Ser	Gly	Ala	Pro	Gly	Gln	Lys	Lys	Cys	Tyr	Ser	Cys	Pro
				80					85					90
Val	Cys	Ser	Arg	Val	Phe	Glu	Tyr	Met	Ser	Tyr	Leu	Gln	Arg	His
				95					100					105
Ser	Ile	Thr	His	Ser	Glu	Val	Lys	Pro	Phe	Glu	Cys	Asp	Ile	Cys
				110					115					120
Gly	Lys	Ala	Phe	Lys	Arg	Ala	Ser	His	Leu	Ala	Arg	His	His	Ser
				125					130					135
Ile	His	Leu	Ala	Gly	Gly	Gly	Arg	Pro	His	Gly	Cys	Pro	Leu	Cys
				140					145					150

Pro	Arg	Arg	Phe	Arg	Asp	Ala	Gly	Glu	Leu	Ala	Gln	His	Ser	Arg
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Val	His	Ser	Gly	Glu	Arg	Pro	Phe	Gln	Cys	Pro	His	Cys	Pro	Arg
				170					175					180
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His	Pro													

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				20					25					30
Arg	Gly	Val	Val	Leu	Phe	Phe	Ile	Gly	Val	Phe	Leu	Ala	Leu	Val
				35					40					45
Leu	Asn	Leu	Leu	Gln	Ile	Gln	Arg	Asn	Val	Thr	Leu	Phe	Pro	Pro
				50					55					60
Asp	Val	Ile	Ala	Ser	Ile	Phe	Ser	Ser	Ala	Trp	Trp	Val	Pro	Pro
				65					70					75
Cys	Cys	Gly	Thr	Ala	Ser	Ala	Val	Ile	Gly	Leu	Leu	Tyr	Pro	Cys
				80					85					90
Ile	Asp	Arg	His	Leu	Gly	Glu	Pro	His	Lys	Phe	Lys	Arg	Glu	Trp
				95					100					105
Ser	Ser	Val	Met	Arg	Cys	Val	Ala	Val	Phe	Val	Gly	Ile	Asn	His
				110					115					120
Ala	Ser	Ala	Lys	Val	Asp	Phe	Asp	Asn	Asn	Ile	Gln	Leu	Ser	Leu
				125					130					135
Thr	Leu	Ala	Ala	Leu	Ser	Ile	Gly	Leu	Trp	Trp	Thr	Phe	Asp	Arg
				140					145					150
Ser	Arg	Ser	Gly	Phe	Gly	Leu	Gly	Val	Gly	Ile	Ala	Phe	Leu	Ala
				155					160					165
Thr	Val	Val	Thr	Gln	Leu	Leu	Val	Tyr	Asn	Gly	Val	Tyr	Gln	Tyr
				170					175					180
Thr	Ser	Pro	Asp	Phe	Leu	Tyr	Val	Arg	Ser	Trp	Leu	Pro	Cys	Ile
				185					190					195
Phe	Phe	Ala	Gly	Gly	Ile	Thr	Met	Gly	Asn	Ile	Gly	Arg	Gln	Leu
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Ala	Met	Tyr	Glu	Cys	Lys	Val	Ile	Ala	Glu	Lys	Ser	His	Gln	Glu
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          20          25          30
Ala Ala Val Ala Gln Ala Pro Pro Ala Val Ala Ser Ser Ser Leu
          35          40          45
Phe Asp Leu Ser Val Leu Lys Leu His His Ser Leu Gln Gln Ser
          50          55          60
Glu Pro Asp Leu Arg His Leu Val Leu Val Val Asn Thr Leu Arg
          65          70          75
Arg Ile Gln Ala Ser Met Ala Pro Ala Ala Leu Pro Pro Val
          80          85          90
Pro Ser Pro Pro Ala Ala Pro Ser Val Ala Asp Asn Leu Leu Ala
          95          100          105
Ser Ser Asp Ala Ala Leu Ser Ala Ser Met Ala Ser Leu Leu Glu
          110          115          120
Asp Leu Ser His Ile Glu Gly Leu Ser Gln Ala Pro Gln Pro Leu
          125          130          135
Ala Asp Glu Gly Pro Pro Gly Arg Ser Ile Gly Gly Ala Ala Pro
          140          145          150
Ser Leu Gly Ala Leu Asp Leu Leu Gly Pro Ala Thr Gly Cys Leu
          155          160          165
Leu Asp Asp Gly Leu Glu Gly Leu Phe Glu Asp Ile Asp Thr Ser
          170          175          180
Met Tyr Asp Asn Glu Leu Trp Ala Pro Ala Ser Glu Gly Leu Lys
          185          190          195
Pro Gly Pro Glu Asp Gly Pro Gly Lys Glu Glu Ala Pro Glu Leu
          200          205          210
Asp Glu Ala Glu Leu Asp Tyr Leu Met Asp Val Leu Val Gly Thr
          215          220          225
Gln Ala Leu Glu Arg Pro Pro Gly Pro Gly Arg
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20	25	30
Glu Leu Asp Gln Tyr	Ala Pro Asp Val	Ala Glu Leu Ile Arg Thr
35	40	45
Pro Met Glu Met Arg	Tyr Ile Pro Leu Lys	Val Ala Leu Phe Tyr
50	55	60
Leu Leu Asn Pro Tyr	Thr Ile Leu Ser Cys	Val Ala Lys Ser Thr
65	70	75
Cys Ala Ile Asn Asn	Thr Leu Ile Ala Phe	Phe Ile Leu Thr Thr
80	85	90
Ile Lys Gly Ser Ala	Phe Leu Ser Ala Ile	Phe Leu Ala Leu Ala
95	100	105
Thr Tyr Gln Ser Leu	Tyr Pro Leu Thr Leu	Phe Val Pro Gly Leu
110	115	120
Leu Tyr Leu Leu Gln	Arg Gln Tyr Ile Pro	Val Lys Met Lys Ser
125	130	135
Lys Ala Phe Trp Ile	Phe Ser Trp Glu Tyr	Ala Met Met Tyr Val
140	145	150
Gly Ser Leu Val Val	Ile Ile Cys Leu Ser	Phe Phe Leu Leu Ser
155	160	165
Ser Trp Asp Phe Ile	Pro Ala Val Tyr Gly	Phe Ile Leu Ser Val
170	175	180
Pro Asp Leu Thr Pro	Asn Ile Gly Leu Phe	Trp Tyr Phe Phe Ala
185	190	195
Glu Met Phe Glu His	Phe Ser Leu Phe Phe	Val Cys Val Phe Gln
200	205	210
Ile Asn Val Phe Phe	Tyr Thr Ile Pro Leu	Ala Ile Lys Leu Lys
215	220	225
Glu His Pro Ile Phe	Phe Met Phe Ile Gln	Ile Ala Val Ile Ala
230	235	240
Ile Phe Lys Ser Tyr	Pro Thr Val Gly Asp	Val Ala Leu Tyr Met
245	250	255
Ala Phe Phe Pro Val	Trp Asn His Leu Tyr	Arg Phe Leu Arg Asn
260	265	270
Ile Phe Val Leu Thr	Cys Ile Ile Ile Val	Cys Ser Leu Leu Phe
275	280	285
Pro Val Leu Trp His	Leu Trp Ile Tyr Ala	Gly Ser Ala Asn Ser
290	295	300
Asn Phe Phe Tyr Ala	Ile Thr Leu Thr Phe	Asn Val Gly Gln Ile
305	310	315
Leu Leu Ile Ser Asp	Tyr Phe Tyr Ala Phe	Leu Arg Arg Glu Tyr
320	325	330
Tyr Leu Thr His Gly	Leu Tyr Leu Thr Ala	Lys Asp Gly Thr Glu
335	340	345
Ala Met Leu Val Leu	Lys	
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				20					25					30
Thr	Pro	Thr	Asp	Ser	Cys	Glu	Pro	Ala	Pro	Glu	Cys	Ser	Ser	Leu
				35					40					45
Glu	Gln	Glu	Glu	Leu	Gln	Ala	Leu	Gln	Ile	Glu	Gln	Gly	Glu	Ser
				50					55					60
Ser	Gln	Asn	Gly	Thr	Val	Leu	Met	Glu	Glu	Thr	Ala	Tyr	Pro	Ala
				65					70					75
Leu	Glu	Glu	Thr	Ser	Ser	Thr	Ile	Glu	Ala	Glu	Glu	Gln	Lys	Ile
				80					85					90
Pro	Glu	Asp	Ser	Ile	Tyr	Ile	Gly	Thr	Ala	Ser	Asp	Asp	Ser	Asp
				95					100					105
Ile	Val	Thr	Leu	Glu	Pro	Pro	Lys	Leu	Glu	Glu	Ile	Gly	Asn	Gln
				110					115					120
Glu	Val	Val	Ile	Val	Glu	Glu	Ala	Gln	Ser	Ser	Glu	Asp	Phe	Asn
				125					130					135
Met	Gly	Ser	Ser	Ser	Ser	Ser	Gln	Tyr	Thr	Phe	Cys	Gln	Pro	Glu
				140					145					150
Thr	Val	Phe	Ser	Ser	Gln	Pro	Ser	Asp	Asp	Glu	Ser	Ser	Ser	Asp
				155					160					165
Glu	Thr	Ser	Asn	Gln	Pro	Ser	Pro	Ala	Phe	Arg	Arg	Arg	Arg	Ala
				170					175					180
Arg	Lys	Lys	Thr	Val	Ser	Ala	Ser	Glu	Ser	Glu	Asp	Arg	Leu	Val
				185					190					195
Ala	Glu	Gln	Glu	Thr	Glu	Pro	Ser	Lys	Glu	Leu	Ser	Lys	Arg	Gln
				200					205					210
Phe	Ser	Ser	Gly	Leu	Asn	Lys	Cys	Val	Ile	Leu	Ala	Leu	Val	Ile
				215					220					225
Ala	Ile	Ser	Met	Gly	Phe	Gly	His	Phe	Tyr	Gly	Thr	Ile	Gln	Ile
				230					235					240
Gln	Lys	Arg	Gln	Gln	Leu	Val	Arg	Lys	Ile	His	Glu	Asp	Glu	Leu
				245					250					255
Asn	Asp	Met	Lys	Asp	Tyr	Leu	Ser	Gln	Cys	Gln	Gln	Glu	Gln	Glu
				260					265					270
Ser	Phe	Ile	Asp	Tyr	Lys	Ser	Leu	Lys	Glu	Asn	Leu	Ala	Arg	Cys
				275					280					285
Trp	Thr	Leu	Thr	Glu	Ala	Glu	Lys	Met	Ser	Phe	Glu	Thr	Gln	Lys
				290					295					300
Thr	Asn	Leu	Ala	Thr	Glu	Asn	Gln	Tyr	Leu	Arg	Val	Ser	Leu	Glu
				305					310					315
Lys	Glu	Glu	Lys	Ala	Leu	Ser	Ser	Leu	Gln	Glu	Glu	Leu	Asn	Lys
				320					325					330
Leu	Arg	Glu	Gln	Ile	Arg	Ile	Leu	Glu	Asp	Lys	Gly	Thr	Ser	Thr
				335					340					345
Glu	Leu	Val	Lys	Glu	Asn	Gln	Lys	Leu	Lys	Gln	His	Leu	Glu	Glu
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Glu	Lys	Gln	Lys	Lys	His	Ser	Phe	Leu	Ser	Gln	Arg	Glu	Thr	Leu
				365					370					375
Leu	Thr	Glu	Ala	Lys	Met	Leu	Lys	Arg	Glu	Leu	Glu	Arg	Glu	Arg
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Leu	Val	Thr	Thr	Ala	Leu	Arg	Gly	Glu	Leu	Gln	Gln	Leu	Ser	Gly
				395					400					405
Ser	Gln	Leu	His	Gly	Lys	Ser	Asp	Ser	Pro	Asn	Val	Tyr	Thr	Glu
				410					415					420

Lys	Lys	Glu	Ile	Ala	Ile	Leu	Arg	Glu	Arg	Leu	Thr	Glu	Leu	Glu	425	430	435
Arg	Lys	Leu	Thr	Phe	Glu	Gln	Gln	Arg	Ser	Asp	Leu	Trp	Glu	Arg	440	445	450
Leu	Tyr	Val	Glu	Ala	Lys	Asp	Gln	Asn	Gly	Lys	Gln	Gly	Thr	Asp	455	460	465
Gly	Lys	Lys	Lys	Gly	Gly	Arg	Gly	Ser	His	Arg	Ala	Lys	Asn	Lys	470	475	480
Ser	Lys	Glu	Thr	Phe	Leu	Gly	Ser	Val	Lys	Glu	Thr	Phe	Asp	Ala	485	490	495
Met	Lys	Asn	Ser	Thr	Lys	Glu	Phe	Val	Arg	His	His	Lys	Glu	Lys	500	505	510
Ile	Lys	Gln	Ala	Lys	Glu	Ala	Val	Lys	Glu	Asn	Leu	Lys	Lys	Phe	515	520	525
Ser	Asp	Ser	Val	Lys	Ser	Thr	Phe	Arg	His	Phe	Lys	Asp	Thr	Thr	530	535	540
Lys	Asn	Ile	Phe	Asp	Glu	Lys	Gly	Asn	Lys	Arg	Phe	Gly	Ala	Thr	545	550	555
Lys	Glu	Ala	Ala	Glu	Lys	Pro	Arg	Thr	Val	Phe	Ser	Asp	Tyr	Leu	560	565	570
His	Pro	Gln	Tyr	Lys	Ala	Pro	Thr	Glu	Asn	His	His	Asn	Arg	Gly	575	580	585
Pro	Thr	Met	Gln	Asn	Asp	Gly	Arg	Lys	Glu	Lys	Pro	Val	His	Phe	590	595	600
Lys	Glu	Phe	Arg	Lys	Asn	Thr	Asn	Ser	Lys	Lys	Cys	Ser	Pro	Gly	605	610	615
His	Asp	Cys	Arg	Glu	Asn	Ser	His	Ser	Phe	Arg	Lys	Ala	Cys	Ser	620	625	630
Gly	Val	Phe	Asp	Cys	Ala	Gln	Gln	Glu	Ser	Met	Ser	Leu	Phe	Asn	635	640	645
Thr	Val	Val	Asn	Pro	Ile	Arg	Met	Asp	Glu	Phe	Arg	Gln	Ile	Ile	650	655	660
Gln	Arg	Tyr	Met	Leu	Lys	Glu	Leu	Asp	Thr	Phe	Cys	His	Trp	Asn	665	670	675
Glu	Leu	Asp	Gln	Phe	Ile	Asn	Lys	Phe	Phe	Leu	Asn	Gly	Val	Phe	680	685	690
Ile	His	Asp	Gln	Lys	Leu	Phe	Thr	Asp	Phe	Val	Asn	Asp	Val	Lys	695	700	705
Asp	Tyr	Leu	Arg	Asn	Met	Lys	Glu	Tyr	Glu	Val	Asp	Asn	Asp	Gly	710	715	720
Val	Phe	Glu	Lys	Leu	Asp	Glu	Tyr	Ile	Tyr	Arg	His	Phe	Phe	Gly	725	730	735
His	Thr	Phe	Ser	Pro	Pro	Tyr	Gly	Pro	Arg	Ser	Val	Tyr	Ile	Lys	740	745	750
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gcccata

1207

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 acaccctcat tgctttcttc attttgacta cgataaaaagg cagtgtcttc ctgagtgcta 540
 tttttcttgc cttagcgaca taccagtctc tgtaccact caccttgttt gtcccaggac 600
 tcctctatct cctccagcgg cagtacatac ctgtgaaat gaagagcaaa gccttctgga 660


```

tcttttcttg ggagtatgcc atgatgtatg tgggaagcct agtggtaatc atttgccctc 720
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ttccagatct cactccaaac attggtcttt tctggtactt ctttgcagag atgtttgagc 840
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gacccccacc ttgtggctct gcacaccaag gagccccctc ccagacagga aggagaagag 1560
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taaaaaaaaa a 1631

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<210> 10

<211> 3006

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte clone 1853196

<400> 10

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gctgccccct cagacctgaa agatgtctga aaattccagt gacagtgatt catcttgtgg 120
ttggactgtc atcagtcagt aggggtcaga tatagaaatg ttgaattctg tgacccccac 180
tgacagctgt gagcccgccc cagaatgttc atcttttagag caagaggagc ttcaagcatt 240
gcagatagag caaggagaaa gcagccaaaa tggcacagtg cttatggaag aaactgctta 300
tccagctttg gaggaacca gctcaacaat tgaggcagag gaacaaaaga taccgaaga 360
cagtatctat attggaactg ccagtgatga ttctgatatt gttacccttg agccacctaa 420
gttagaagaa attggaatc aagaagtgtt cattgttgaa gaagcacaga gttcagaaga 480
ctttaacatg ggctcttctt cttagcagca gtatacttct tgtcagccag aaactgtatt 540
ttcatctcag cctagtgtat atgaatcaag tagtgatgaa accagtaate agccagctcc 600
tgcctttaga cgagccctgt ctaggaagaa gaccgtttct gcttcagaat ctgaagaccg 660
gctagtgtgt gaacaagaaa ctgaaccttc taaggagttg agtaaactgc agttcagtag 720
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tttctatggc acaattcaga ttcagaagcg tcaacagtta gtcagaaaga tacatgaaga 840
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gactctgttg acagaagcaa agatgctaaa gagagaactg gagagagaac gactagtaac 1260
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aagccacagg gctaaaaata agtcaaagga aacatttttg ggttcagtta aggaacatt 1560
tgatgccatg aagaattcta ccaaggagtt tgtaaggcat cataaagaga aaattaagca 1620

```

```

ggctaaagaa gctgtgaagg aaaatctgaa aaaattctca gattcagtta aatccacttt 1680
cagacacttt aaagatacca ccaagaatat cttt gatgaa aagggttaata aaagatttgg 1740
tgctacaaaa gaagcagctg aaaaaccaag aacagttttt agtgactatt tacatccaca 1800
gtataaggca cctacagaaa accatcataa tagaggccct actatgcaaa atgatggaag 1860
gaaagaaaag ccagttcact ttaaagaatt cagaaaaaat acaaattcaa agaaatgcag 1920
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gaaagatgga gtctaaaaat tattagctgt taaaaatgga acatttcatt ataacgtgat 2520
cactttgact tgagcaaatg gtttaatttt tatcttaaaa atcagttaag aatatataaa 2580
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ttcataataa ttttttatcc attttcatct ttatatctg taacatgaaa cttacctaata 2940
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tgtgta                                     3006

```

<210> 11

<211> 684

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> 269, 285, 295, 312, 366, 375, 378, 397, 406, 428, 495, 501, 503

<221> unsure

<222> 586, 592, 610, 613, 643

<223> a or g or c or t, unknown, or other

<220>

<221> misc_feature

<223> Incyte clone 108390F1

<400> 11

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cagtatatatc attgggagaa tctgacttgc catgtaactg actaccactt aactgctgga 60
gttccccctt taaagccgta gttactagtc gttctctctc cagttctctc tttagcatct 120
ttgcttctgt caacagagtc tccctttgac taagaaagct gtgttttttc tgcttttccct 180
cttccaaatg ctgcttaagt ttctgatttt ctttaactaa ttcagtactt gtccctttat 240
cttccaatat tctaactctgt tctcttagnt tgtttaactc ttccngtaat gaggntaagg 300
ctttttcttc cntctccagg gatactctta aatactgatt ttctgtagca aggttcgttt 360
ctgagnttca aaggncanct tctctgcttc agtaagngtc caacancttg caagatttct 420
ttcaatgnct tataatctat aaaagttctt gttcccgttg acacggggaa ggtaatcctc 480
atatcatcaa ttcanccttca ngnatcttct tgactaactg ttgacggttc tgaatctgaa 540
tgtgccatag gaatggccaa atcccagctt gattgcaatc accaangcaa gnataacaca 600
cttattgggn ccnctactga actgacgggt actcaactcc ttnggagggg cagttcttgt 660
tcagcaacta gccgggtcttc agat                                     684

```

<210> 12
 <211> 416
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte clone 1211009R1

<400> 12
 aagaattcta ccaaggagtt tgtaaggcat cataaagaga aaattaagca ggctaaagaa 60
 gctgtgaagg aaaatctgaa aaaattctca gattcagtta aatccacttt cagacacttt 120
 aaagatacca ccaagaatat ctttgatgaa aagggttaata aaagatttgg tgctacaaaa 180
 gaagcagctg aaaaaccaag aacagttttt agtgactatt tacatccaca gtataaggca 240
 cctacagaaa accatcataa tagaggccct actatgcaaa atgatggaag gaaagaaaag 300
 ccagttcact ttaaagaatt cagaaaaaat acaaattcaa agaaatgcag tcctgggcat 360
 gattgtagag aaaattctca ttctttcaga aaggcttggt ctggtgtatt tgattg 416

<210> 13
 <211> 609
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 25, 152, 166, 169, 173, 174, 180, 183, 186, 192, 193, 198, 200
 <221> unsure
 <222> 205, 220, 230, 233, 236, 243, 246, 251, 285, 307, 309, 310, 317
 <221> unsure
 <222> 319, 329, 344, 345, 377, 475, 485, 556, 573, 583, 594
 <223> a or g or c or t, unknown, or other

<220>
 <221> misc_feature
 <223> Incyte clone 1211009T1

<400> 13
 aagaacatta tatattattca gaaanattaa gtattttcaaa ggtaaaaaaat gaagctaaca 60
 tttgaagatt aggtaagttt catgttacag aatataaaga tgaaaatgga taaaaaatta 120
 ttatgaagta cacacattag aatttgactt gnttagtttg cctctntgng ccnntacctn 180
 tancanaggt anntatgngn ctaantatca taactaagcn ggtacatggn atnganaagt 240
 ganaanaggt nggacattag aaattattat atatgagctc ttctnacttc agagtaaaat 300
 ttgtgtngnn cattccnanc ttccaaaant gaataaatat atannagatt aaaggaaaat 360
 aatttcactt aagggtgntct tttcatataa actataatga gaagaaacaa acttggccaa 420
 agtaggattt tatatattct taactgattt ttaagataga aaattaaacc atttntctca 480
 gtcanaagtg taacgttata atgaaatggt ccatttgtaa cagctaataa ttttttagact 540
 ccatctttca atttantctg aattctctca gtngccataa agncaactct tagnaacggt 600
 accttcaag 609

<210> 14
 <211> 189
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte clone 1352052H1

<400> 14

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cttcacatcc gtcctcctgt ctcagggctg gcagggggag cctggaatta cccctagtg 60
atggaatgac aggggtctggt ggggactgaa ttccctggcc ctgggggtcat agcttgggct 120
gttcctttctc tgatacggga agagacccca atcagatttt tcaaattaaa gccagtcctg 180
ggaaatctc 189
```

<210> 15

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> 34, 59, 60, 134, 168, 311, 314, 344, 347, 354, 364, 391, 393, 401

<221> unsure

<222> 407, 413, 416, 426, 445, 446, 447, 453, 454, 459, 471

<223> a or g or c or t, unknown, or other

<220>

<221> misc_feature

<223> Incyte clone 1391767F1

<400> 15

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gaaaaaaagg aaatagcaat cttacgggaa agantcactg agctggaacg gaagctaann 60
ttcgaacagc agcgttctga tttgtgggaa agattgtatg ttgaggcaaa agatcaaaaat 120
ggaaaacaag gaanagatgg aaaaaagaaa gggggcagag gaagccanag ggctaaaaat 180
aagtcaaagg aaacattttt gggttcagtt aaggaaacat ttgatgccat gaagaattct 240
accaaggagt ttgtaaggca tcataaagag aaaattaagc aggctaaaga agctgtgaag 300
gaaaatctga naanattctc agattcagtt aaatccactt tccnggnact ttanagtacc 360
cccnagggta tctttgatga aaagggtaat nanagtttgg ngctacnaaa gangcnagct 420
gaaaanccag gacagttttt agggnnntat tgnnatccnc agtataaggc ncc 473
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<210> 16

<211> 529

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> 119, 501

<223> a or g or c or t, unknown, or other

<220>

<221> misc_feature

<223> Incyte clone 1477338F1

<400> 16

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ccccagatgt ggccgaactc atccggaccc ctatggaaat gcgttacatc cctttgaaag 60
tggccctgtt ctatctctta aatccttaca cgattttgtc ttgtgttgcc aagtctaent 120
gtgccatcaa caacaccctc attgctttct tcattttgac tacgataaaa ggcagtgtt 180
tcctcagtgc tatttttctt gccttagcga cataccagtc tctgtaccca ctcacctgt 240
ttgtcccagg actcctctat ctctccagc ggcagtacat acctgtgaaa atgaagagca 300
aagccttctg gatcttttct tgggagtatg ccatgatgta tgtgggaagc ctagtggtaa 360
tcatttgcct ctcttcttct cttctcagct cttgggattt catccccgca gtctatggct 420
ttatactttc tgttccagat ctcaactcaa acattgggtc tttctggtag ttctttgcag 480
agatgtttga gcacttcagc ntcttctttg tatgtgtgtt cagatcaac 529

```

<210> 17

<211> 581

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> 372, 374, 445

<223> a or g or c or t, unknown, or other

<220>

<221> misc_feature

<223> Incyte clone 1520634F1

<400> 17

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gccatcccc tgccctcagc ctctggcatt ttctccggt gagaccatgg agggccctcc 60
ccgtcggact tgccgtctcc cagaacctgg accttctcc tccatcggat ctccccaggc 120
ttcatctcct ccaaggccca accactacct gcttattgac actcaggggtg tccccacac 180
agtgtgtgtg gacgaggagt cacagaggga gccaggggccc agtgggggtc caggccagaa 240
aaagtgttac agctgccccg tgtgtcaag ggtcttcgag tacatgtcct accttcagcg 300
acacagcatc acccactcgg aggtaaagcc cttcgagtgt gacatctgtg ggaaggcatt 360
caagcgcgcc ancnaacttg cacggcacca ttccattcac ctggcggtgt gtggcgggcc 420
ccacggctgc ccgtctgtcc ctgcncgttc cgggatgcgg gtgagctggc ccagcacagc 480
cgggtgcact ctggggaacg cccgtttcag tgtcacactg cctcgccgtt tatggagaga 540
acacactgca gaaacacacg ggtggaagca tccatgagcg g 581

```

<210> 18

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> 462, 485, 510, 514, 550, 562, 602, 617, 622, 625, 629, 636

<223> a or g or c or t, unknown, or other

<220>

<221> misc_feature

<223> Incyte clone 1525569F6

<400> 18

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cagtaatcag cccagtcctg cctttagacg acgccgtgct aggaagaaga ccgtttctgc 60

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```

ttcagaatct gaagaccggc tagttgctga acaagaaact gaaccttcta aggagttgag 120
taaacgtcag ttcagtagtg gtctcaataa gtgtgttata cttgctttgg tgattgcaat 180
cagcatggga tttggccatt tctatggcac aattcagatt cagaagcgtc aacagttagt 240
cagaaaagata catgaagatg aattgaatga tatgaaggat tatctttccc agtgtcaaca 300
ggaacaagaa tcttttatag attataagtc attgaaagaa aatcttgcaa ggtgttggac 360
acttactgaa gcagagaaga tgtcctttga aactcagaaa acgaaccttg ctaccagaaa 420
atcagtatctt aagagtatcc ttggagaagg aagaaaaagc cntatcctca ttaccagga 480
agagntaaac aaacttaaga ggaccagttn gganattgga agataaaggg gacaagtact 540
gaattagttn aaggaaaatc cngaaacttt aagcagcctt tggaagaggg aaagccggaa 600
anacaccagc tttcctnagt cnaangggng accctnt 637

```

<210> 19
 <211> 187
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 13, 19, 21
 <223> a or g or c or t, unknown, or other

<220>
 <221> misc_feature
 <223> Incyte clone 1554775H1

```

<400> 19
gggcggagtt gtnggagtn nggaggaaga ggcggtaggg ggtacggggg ctgggtcccag 60
aagatggcgg aggcggggga tttctggtag gtcctacttt aggacaagat gtggtaccgt 120
tgaagcgtca gtctttgatt cacagacagt tgagcttttc agctgggaag cctttccatt 180
ttttttt 187

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<210> 20
 <211> 499
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 406, 435
 <223> a or g or c or t, unknown, or other

<220>
 <221> misc_feature
 <223> Incyte clone 1596581F6

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<400> 20
aaaaagcaga aactcctcct agaactggac cagtatgccc cagatgtggc cgaactcatc 60
cggaccctta tggaatgcg ttacatccct ttgaaagtgg ccctgttcta tctcttaa 120
ccttacacga ttttgtcttg tgttgccaag tctacctgtg ccatcaacaa caccctcatt 180
gctttcttca ttttgactac gataaaaggc agtgcttttc tcagtgtat ttttcttgcc 240
ttagcgacat accagtctct gtaccactc accttgtttg tcccaggact cctctatctc 300

```

```

ctccagcggc agtacatacc tgtgaaaaatg aagagcaaag ctttctggat cttttcttgg 360
gagtatgcca tgatgtatgt ggggaagccta gtggtaatca tttgcntctc cttcttcctt 420
ctcagctctt ggganttcac ccccgcatgc taatggctta tactttctgt tccagatctc 480
atccaaacat tgggtcttt 499

```

<210> 21
 <211> 287
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 122, 144, 266, 273
 <223> a or g or c or t, unknown, or other

<220>
 <221> misc_feature
 <223> Incyte clone 1596581T1

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<400> 21
ggcttggccc agcttctggc cccacagccc cctgaggtcc atgcagccct gtgccagcca 60
ggcctacttg agcacgagca tggcctctgt gccatccttg gcggtcaagt agaggccatg 120
tntgaggtag tactcccgcc gcangaaggc atagaagtaa tcagagatga gcaggatctg 180
cccaacgttg aaggtcagtg tgatggcata aaagaaatta gagttggcac ttcctgcata 240
aatccagagg tgccacagga cagggnagaa cangggacag acgattt 287

```

<210> 22
 <211> 579
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 22, 25, 32, 106, 123, 126, 135, 208, 216, 219, 234, 236, 263, 271
 <221> unsure
 <222> 282, 287, 292, 358, 360, 363, 365, 379, 412, 441, 452, 459, 483
 <221> unsure
 <222> 485, 499, 500
 <223> a or g or c or t, unknown, or other

<220>
 <221> misc_feature
 <223> Incyte clone 162871X4

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<400> 22
ctaaagaaga gcggtagggg gncnngggc tngtcccaga aagtatggcg gaggcggggg 60
atcttctggta ggtcctactt taggacaaga tgtggtaccg ttgaancgtc agtctttgat 120
tcncanacag ttganctttt cagctgggaa gcctttccat tttttttttt aacggctttc 180
tgaacctatg aaacctatggc aaaagganaa acaaantcnc ctgggcccac aaantntggc 240
ccatatatct catctgtcac tanccaaatt ntgaacttga tnattcnagg antattgcta 300
ttttttattg gagtatttct tgcattagtg ttaaatttac ttcaaattca aaaaaatntn 360
acnncctttc cacctgatnt gattgcaagc atcttttctt ctgcatgctg tnattgggtt 420
attatacccc tgcattaaca nacatctagg anaaccacnt aaatttaaâa aaaagtggtc 480

```

cantntaatg cgggtgtgttn cagtctttgt tggataaat catgccagtg ctaaagtgga 540
 tttcgataac aacatacagt tgtctctcac actggcgca 579

<210> 23
 <211> 250
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 8, 17, 24, 27, 33, 36, 43, 246
 <223> a or g or c or t, unknown, or other

<220>
 <221> misc_feature
 <223> Incyte clone 162871X92

<400> 23
 ggaaaggnc aagggaanggg gtanggnccg tgntcnaaga aantggcgga ggcgggggat 60
 ttctgctgtg attgggttat tatacccctg cattgacaga catctaggag aaccacataa 120
 atttaaaaga gagcgggtcca gtgtaatgcg gtgtgtagca gtctttgttg gtataaatca 180
 tgccagtgc aaagtggatt tcgataacaa catacagttg tctctcacac tggctgcact 240
 atcttnaaaa 250

<210> 24
 <211> 250
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 8
 <223> a or g or c or t, unknown, or other

<220>
 <221> misc_feature
 <223> Incyte clone 1658067H1

<400> 24
 cgacagtngg ggacgtggcg ctctacatgg cttcttccc cgtgtggaac catctctaca 60
 gattcctgag aaacatcttt gtcctcacct gcatcatcat cgtctgttcc ctgctcttcc 120
 ctgtcctgtg gcacctctgg atttatgcag gaagtgccaa ctctaatttc ttttatgcca 180
 tcacactgac cttcaacgtt gggcagatcc tgctcatctc tgattacttc tatgccttcc 240
 tgcggcgcca 250

<210> 25
 <211> 736
 <212> DNA
 <213> Homo sapiens

<220>

<221> unsure
 <222> 419, 435, 453, 462, 463, 471, 476, 513, 516, 563, 585, 586, 597
 <221> unsure
 <222> 611, 618, 652, 661, 680, 684, 685, 692, 693, 701, 714, 725, 731
 <223> a or g or c or t, unknown, or other

<220>
 <221> misc_feature
 <223> Incyte clone 1706512F6

<400> 25
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 aatatgaagt agataatgat ggagtatttg agaagttgga tgaatatata tatagacact 120
 tctttgtgca cactttttcc cctccatatg gacccaggtc ggtttacata aaaccgtgtc 180
 attacagtag tttgtaacat ttgtagattg gatagcattt ttatgatttg atgagtttct 240
 tgtaagggtta ccgtttctaa gagttgtgct ttatgggcac tgagagaatt ccagaataaa 300
 ttgaaagatg ggagtcctaa aaatttaatt agccggttac caaatgggga ccttttccat 360
 tagtaacggt gattccacct ttggaccttt gaggccaaat gggtttaaat ttttttaanc 420
 ccttaaaaaa atccnggttt aaaggaatta ttnttaaaga annccccacc nttttngggc 480
 ccaaggtttt ggttttccct ttttccattt aanaanggtt ttaataatgg aaaaaaggat 540
 tccacccttt aaaggtggga aantttaatt ttttccccct taaannccct ttttaanggg 600
 aattttaaat nccccttnct gggaagccca agggaatgga ggcccacccc cnaattttta 660
 ncccgggaag gtccggaagn ggcnnctat annaataatt nccaaaggtc cccncccaat 720
 tttcncctgg ncccat 736

<210> 26
 <211> 611
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 213, 223, 369, 406, 423, 469, 475, 490, 494, 498, 524, 548, 570
 <221> unsure
 <222> 574, 582, 584, 594, 597, 605, 607
 <223> a or g or c or t, unknown, or other

<220>
 <221> misc_feature
 <223> Incyte clone 1722946F6

<400> 26
 attggcgccc gagctgtgac cgccgccact ggggcagcca gcacaatcgg gcgagggtgg 60
 cgctgcccct tcagacctga aagatgtctg aaaattccag tgacagtgat tcatcttgtg 120
 gttggactgt catcagtcac gaggggtcag atatagaaat gttgaattct gtgaccccca 180
 ctgacagctg tgagcccgcc ccagaatgtt canctttaga gcnagaggag cttcaagcat 240
 tgcagataga gcaaggagaa tgcagccaaa atggcacagt gcttatggaa gaaactgctt 300
 atccagcttt ggaggaaaacc agtcaacaa ttgaggcaga ggaacaaaag ataccggaag 360
 acagtatcna tattggaact gccagtgggtg attctgatat tggtanccct tgagccacta 420
 agnttagaag gaattgggga tccaagaagt tgtcattgtt gaagaaagnc caagntccgg 480
 agacttttan catngggntc ttctcttagc agccagtata cttntctgtt cagcccagaa 540
 aactggantt tcatcttcag cctaatagacn gtgnaatcaa gntngtgatg gaancngtt 600
 attcngnccc c 611

<210> 27
 <211> 592
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 94, 104, 149, 167, 215, 226, 232, 275, 298, 301, 312, 333, 362
 <221> unsure
 <222> 364, 367, 376, 391, 392, 395, 412, 415, 419, 429, 435, 443, 449
 <221> unsure
 <222> 452, 462, 463, 464, 466, 467, 468, 470, 476, 485, 489, 492, 502
 <221> unsure
 <222> 514, 529, 533, 541, 550, 557, 558, 567, 572, 574, 577, 580
 <223> a or g or c or t, unknown, or other

<220>
 <221> misc_feature
 <223> Incyte clone 1853196F6

<400> 27
 ctttcagaaa ggcttggttct ggtgtatttg attgtgtctca acaagagtcc atgagccttt 60
 ttaacacagt ggtgaatcct ataaggatgg atgnatttag acanataatt caaaggtaca 120
 tggtaaaaga actggatact ttttgtcant ggaacgaact tgatcanttc atcaataagt 180
 ttttcctaaa cgggtgtcttt atacatgatc agaantctctt cactgncttt gntaatgatg 240
 ttaaagatta tcttagaaac atgaaggata tgaantagat aatgatggag tatttgcnaa 300
 nttggatgga tntatatata gacacttctt tgntcacact ttttccccctc catatgggcc 360
 cngntcngtt tacatnaaac cgtgtcttac nntantttgt aacatttgta gntgnatanc 420
 atttttaant ttgangagtt tcntgtaang tnacgggtcc annngnnntn ctttanagcc 480
 accanagana antcggataa antgaaagta gggntccaaa attattaant gtnccaatag 540
 nactttcctn ataaagnngt caccttngct tnancnratn ggtttaattt tt 592

<210> 28
 <211> 447
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte clone 2238411F6

<400> 28
 tttgggcacc agcctctgag ggcctcaaac caggccctga ggatgggccc ggcaaggagg 60
 aagctccgga gctggacgag gccgaattgg actacctcat ggatgtgctg gtgggcacac 120
 aggcactgga gcgaccgccg gggccagggc gctgagccct cgtgctggaa tggttgtctg 180
 gtatctgaac tgagcctgct ggctggacca actgtcctcg aaaagacaca gctggcttcc 240
 ctagtacaga gaacagggct tggggcactt tggagagaca gaatctagtc ctgggcaact 300
 tcacatccgt cctcctgtct cagggctggc agggggagcc tggaattacc ccctagtgat 360
 ggaatgacag ggtctggtgg ggactgaatt ccctggccct ggggtcatag cttgggctgt 420
 tccttctctg atacgggaag agacccc 447

<210> 29
 <211> 247

<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 234
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 2312928H1

<400> 29
tgctgggtggt ggctgtgaca gtgcgggagg ccttggtccg ctccagtctg gccgagttca 60
tttccgagcg ggtggagggtg gtgtccccac tgagctcttg gaagagagtg gttgaaggcc 120
tttcaactgtt ggacttgagg gtatctccgt attctggagc agtatttcat gaaactccat 180
taataatata cctctttcat ttcctaattg actatgctga attggtgttt atgntaactg 240
atgcact 247

<210> 30
<211> 190
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 162, 163
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 3015795H1

<400> 30
acttcacatc cgtcctcctg tctcagggtt ggcaggggga gcctggaatt accccctagt 60
gatggaatga caggggtctgg tggggactga attccctggc cctgggggtca tagcttgggc 120
tggttccttct ctgatacggg aagagacccc aatcagattt tnnaaattaa agccagtcct 180
gggaaatctc 190

<210> 31
<211> 253
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 121
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature

<223> Incyte clone 3231214H1

<400> 31

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gtttcagatc aacgtcttct tctacaccat ccccttagcc ataaagctaa aggagcaccc 60
catcttcttc atgtttatcc agatcgctgt catcgccatc tttaagtcct acccgacagt 120
ngggggacgtg gcgctctaca tggccttctt ccccggtgtg aaccatctct acagattcct 180
gagaaacatc tttgtcctca cctgcatcat catcgtctgt tccctggctc ttccctgtcc 240
tgtggcacct ctg 253
```

<210> 32

<211> 273

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> 88

<223> a or g or c or t, unknown, or other

<220>

<221> misc_feature

<223> Incyte clone 3985439H1

<400> 32

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gtcttccttg cgtgtgcgtg cacgttgggt gctgggggggt ggagaccgga tctatcctcg 60
cttgggtact ttcctctcgg tgtgtgtntc tggccggagc cgtttcgcga cgccccgggc 120
gccccgcccc aaccttctt ccctagacct tcttctctcc ctteggcttc tctctttcgg 180
ccggcgccgc cagttcctgg ggcacaccca gaggtccct tctcgccgcc gcctgcaact 240
gcgagggtag cccggggccg cttggagtcg ccc 273
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<210> 33

<211> 618

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> 190, 336, 351, 413, 420, 423, 432, 441, 449, 454, 462, 510, 520

<221> unsure

<222> 524, 530, 552, 555, 557, 560, 561, 569, 574, 584, 585, 594, 596

<221> unsure

<222> 611, 614

<223> a or g or c or t, unknown, or other

<220>

<221> misc_feature

<223> Incyte clone 403002R6

<400> 33

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tgctggtgga cgaggagtca cagagggagc cagggggccag tggggctcca ggccagaaaa 60
agtgtctacg ctgccccgtg tgctcaaggg tcttcagata catgtcctac cttcagcgac 120
```

```

acagcatcac ccaactcggag gtaaagccct tcgagtgtga catctgtggg aaggcattca 180
agcgcgccan ccaacttgga cggcaccatt ccattcacct ggcggtggtt gggcggtccc 240
acggctgccc gctctgccct cgccgcttcc gggatgcggg tgagtggccc aagcacagcc 300
gggtgcactc tggggaacgc ccgtttcagt gtcaanactg ccttcgccgg nttaaatgga 360
gcagaacaca attgcagaaa acaacaccgc ggttggaag catcccattg aancgggggn 420
ttncggggtt tncccaagg ntaccaaang gaanttttc anagggaac ccttgaaatt 480
ccctgttcca aaaaaacctt ggttaaaan ccctaaaggn tggnttttn aggggccttg 540
gaaaaacagg ancanangn naggggant ttnaaagg aaannccctt gccnanaagg 600
gggaatcccc naantaat 618

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<210> 34
 <211> 297
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte clone 510407R6

```

<400> 34
tgagtaatct tcaggtcctc cgtgttctgg agctgagatg ggaatgagcc cctacacaga 60
atggagtcct cttagcctaaa gatatacagct gttccatggc agagccttga ctggatggag 120
gtggggagtg tgggtgtgta agtctctggc ctcataaaag gtggctgtgg gtcgtcagga 180
atctgcgcca tcttcctggg gcttctgcgc tgttggtggg gaagggaccc cagtcctgcc 240
ttccaccccc caaccaggcc tgagactgat caaacaataa acacgtttcc cactctg 297

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<210> 35
 <211> 239
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 91
 <223> a or g or c or t, unknown, or other

<220>
 <221> misc_feature
 <223> Incyte clone 3590729H1

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<400> 35
ggcgagtgtt tgggcagaag aggttcgagt ccagggtcac aagtctctgg taccaaaagg 60
gacccatggc tgactgacag caaggcctat ngggaagaac tgggagctcc ccaacttgga 120
ccccacctt gtggctctgc acaccaagga gcccctccc agacaggaag gagaagaggc 180
aggtgagcag ggcttgtag attgtggcta ctaataaat gttttttgtt atgaagtct 239

```